

AGENDA of the POSEIDON symposium 2003 Nov. 4th-5th

Tuesday, 4th November

09:00 Welcome by Inge Kükelhan, mayor of the city of Braunschweig

09:10 Welcome by Prof. Eggers, chairman of Sewage Association Braunschweig

09:20: EU research policy of the 6th framework (Christian Patermann, EU Commission)

09:50 Introduction of POSEIDON by Thomas Ternes (BfG)

English session

Session I: Environmental Risk Assessment and mitigation measures

Chair: *Thomas Knacker (ECT)*

10:00 Environmental risk assessment procedures for veterinary and human pharmaceuticals: view of a competent authority. Key note talk
(Jan Koschorrek, UBA, invited)

10:30 Effect studies for single PPCP compounds (Markus Liebig, Phillip Egeler, ECT)

11:00 *Coffee break/poster session*

11:25 Estrogenic effects of sewage effluents on fish (Karen Duis, Thomas Knacker, ECT)

11:50 Examples for ERA of pharmaceuticals (Thomas Knacker, Jörg Römbke, ECT)

12:15 Modelling of predicted environmental concentrations for human pharmaceuticals (Jan Moltmann, ECT)

12:40 Eco-labelling for personal care products (Ursula Klaschka, FH Ulm)

13:00 *Lunch and poster session*

Session II: Analysis, Occurrence and fate of pharmaceuticals and personal care products (PPCPs) in the environment

Chair: *Thomas Ternes (BfG), Alfredo Alder (EAWAG)*

14:00 Releases and pathways of PPCPs into the environment, contamination in European countries (Alfredo Alder, EAWAG)

14:30 Fate and analysis of PPCPs in aqueous environment (Anke Göbel, Elvira Keller, EAWAG)

15:00 Fate and analysis of PPCPs in sludge and sediments (Dirk Löffler, BfG)

15:30 *Coffee break/poster session*

16:00 Austrian case study: Fate of PPCPs in the groundwater after infiltration (Manfred Clara)

16:30 German case study: Fate of PPCPs after irrigation in Braunschweig (Thomas Ternes, BfG)

17:00 **Poster session (Alfredo Alder) and appetisers (Wedeco)**

19:00 End of the scientific part

Wednesday 5th November

Session III: Wastewater Technology

Chair: Juan Lema (University Santiago de Compostela, USDC), Joanna Surmacz-Gorska (Silesian University, SUT)

- 09:00 Sorption, volatilisation and biodegradation of micropollutants in wastewater treatment (Norbert Kreuzinger, IWT)
- 09:30 Impact of treatment technologies illustrated with the mass balances on the PPCPs selected in Poseidon (Christa McArdell, EAWAG)
- 09:55 Fate of PPCPs in sequencing batch and batch reactors (Sebastian Zabczynski, SUT)

10:20 *Coffee break*

- 10:50 Removal of estrogens in municipal wastewater treatment under aerobic, anoxic and anaerobic conditions (Adriano Joss, EAWAG)
- 11:15 Fate of PPCPs during primary clarification and sewage sludge treatment (Juan Lema, USDC)
- 11:40 Effluent ozonation: a promising upgrade for micropollutant removal in municipal wastewater treatment (Thomas Ternes, BfG)
- 12:05 Impact of urine separation on municipal wastewater treatment: nutrient recycling and micropollutant elimination (Max Maurer, EAWAG)

12:30 *Lunch and poster presentation*

Session IV: Drinking water Technology

Chair: Marie-Laure Janex-Habibi (Suez Environment), Marc Huber (EAWAG)

- 13:30 Introduction into drinking water treatment: Removal of pharmaceuticals and personal care products (PPCPs) with activated carbon and membrane filtration (Virginie Decottignies, Suez environment)
- 14:00 Degradation of pharmaceuticals with ozonation: identification of by products for carbamazepine and diclofenac (Derek McDowell, BfG)
- 14:30 Oxidation of pharmaceuticals during ozonation: kinetics and product formation (Marc Huber, Silvio Canonica, EAWAG)

15:00 *Coffee break*

- 15:30 Removal of PPCPs in Finish waters with high DOC (Susanna Korhonen, TUT)
- 16:00 Fate of pharmaceuticals in full-scale waterworks: assessment of processes (Lilo Weber, Wasserverband Hessisches Ried)

16:30 **Conclusions and outcome of the meeting (Thomas Ternes, BfG)**

17:00 End of the meeting